



## SPoRT Data Assimilation Workshop Tuesday, May 5, 2009 NSSTC Conference Room 2096

Welcome and SPoRT Data Assimilation Workshop Overview	9:00
Gary Jedlovec, NASA/SPoRT  Expectations for SPoRT Data Assimilation Workshop	9:05
Section 1: Data Assimilation for Land Surface Modeling	
Jonathan Case, ENSCO, Inc./SPoRT Impacts of High-Resolution Land and Ocean Surface Initialization on Local Model Predictions of Convection	9:15
Christopher Hain, UAHuntsville Developing Synergistic Data Assimilation Approaches for Passive Microwave and Thermal Infrared Soil Moisture Retrievals	9:35
Clay Blankenship, USRA Assimilation of AMSR-E soil moisture into a coupled land surface- mesoscale model in the Land Information System using an ensemb Kalman filter	
Break	10:15-10:25
Section 2: Data Assimilation for Air Quality/Chemical M	odels
Udaysankar Nair, UAHuntsville Assimilation of Satellite Observed Aerosol Optical Depth	10:25
Eun-Su Yang, UAHuntsville Improving Air Quality Forecasts Using CMAQ with Satellite-Deriv Fire Emissions	10:45 red

Lihua Wang, UAHuntsville/RAPCD Application of OMI $O_3$ profiles in CMAQ	11:05
In-House Lunch	11:25-12:45
Section 3: Data Assimilation for Atmospheric Models	
Kevin Doty, UAHuntsville Dynamical and Thermodynamical Support of Model Cloud Fields Using GOES Observations	12:45
Xuanli Li, UAHuntsville Impact of Dual-Polarization Radar Data on Short-Term Forecasts Two Convective Storms	1:05 s of
Matthew Rigney, Texas A&M University Ensemble Statistics and Error Covariance in a Rapidly Intensifying Hurricane	1:25 9
Bradley Zavodsky, UAHuntsville/SPoRT Impact of AIRS Profiles on Short-Term WRF Forecasts	1:45
Break	2:05-2:15
Section 4: Unique Technologies for Data Assimilation	
Xiang Li, UAHuntsville/ITSC; Bradley Zavodsky, UAHuntsville/SPoRT Intelligent Data Reduction Algorithms for Real-Time Data Assimi	2:15 ilation
Manil Maskey, UAHuntsville/ITSC; Gregoire Berthiau, UAHuntsville/V. Bradley Zavodsky, UAHuntsville/SPoRT  Data Assimilation Decision Making Using Sensor Web Enablemen	2:35
Section 5: Future Possibilities	
All Attendees Open Discussion and Future NSSTC Data Assimilation Plans	2:55-4:00